## What is claimed is:

- 1. A polyacrylate obtainable by thermal crosslinking of a polymer mixture comprising the following components:
- 5 , a) a polyacrylate copolymer of the following monomers
  - acrylates and/or methacrylates of the following formula  $CH_2 \approx CH(R^1)(COOR^2)$ where  $R^2 = H$  or  $CH_3$  and  $R^2$  is an alkyl chain with 1-20 carbon atoms, at 65-99% by weight, based on a),
  - olefinically unsaturated monomers containing functional groups, a2) at 0-15% by weight, based on a),
  - acrylates and/or methacrylates whose alcohol component tert-butoxycarbonyl (BOC) and/or hydroxyl groups, at 1-20% by weight, based on a). at 80-99.8% by weight, based on the polymer mixture of claim 1,
  - b) a polymerization regulating photoinitiator at 0.1-15% by weight, based on the polymer mixture of claim 1,
  - c) difunctional isocyanate and/or bifunctional epoxide at 0.1-5% by weight, based on the polymer mixture of claim 1.
  - The polyacrylate as claimed in claim 1, wherein component b) is used at 0.5-1.5% by weight, based on the polymer mixture, and/or component c) is used at 0.5-1% by weight, based on the polymer mixture.

polyacrylate according to elaim I A process for preparing a crosslinked polyacrylate, wherein the polymers to be crosslinked are first protected by introduction of tert-butoxycarbonyl groups and the crosslinking takes place only after the deprotection, by thermal treatment of the now deprotected polyacrylates.

according to claim ! 30 A. A process for preparing a crosslinked polyacrylate, wherein

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the polymers to be crosslinked are first protected by introduction of tert-butoxycarbonyl groups and the crosslinking takes place only after the deprotection, by adding crosslinker substances and by thermal treatment of the now deprotected polyacrylates.

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A process for preparing a crosslinked polyacrylate, wherein the polymers to be crosslinked are first protected by introduction of tert-butoxycarbonyl groups and the crosslinking takes place only after the deprotection, by adding difunctional or polyfunctional isocyanates and by thermal treatment of the now deprotected polyacrylates.

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8. A process for preparing a crosslinked polyacrylate, wherein the polymers to be drosslinked are first protected by introduction of tert-butoxycarbonyl groups and the crosslinking takes place only after the deprotection, by adding difunctional or polyfunctional epoxides and by thermal treatment of the now deprotected polyacrylates.

one of claims 36 The process as claimed in any of the above claims wherein the protective groups are eliminated by irradiation with UV light.

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  The process as claimed in any of the abové claims wherein to eliminate the protective groups the polymer mixture is irradiated with ultraviolet light through a mask in such a way that only certain regions of the polymer mixture are exposed to the UV radiation.
- 25 The use of a polyacrylate of one of the above claims as a pressure-sensitive adhesive composition.
  - 10. The use of a polyacrylate of one of the above claims as a pressure-sensitive adhesive composition for an adhesive tape, where the acrylic pressure-sensitive adhesive composition is present as a single- or double-sided film on a backing.

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